

17. A method for determining quality of wireless communications within a coverage area, comprising:

determining a current location of a user within said coverage area;

receiving information indicative of a quality of wireless communications at at least one location proximate the current location of said user; and

providing an indication of a quality of wireless communications at the current location of said user based on said information.

18. The method of claim 17, wherein the quality of wireless communications at said at least one location and at the current location of said user is measured as one of field strength and communication continuity.

19. The method of claim 17, wherein said determining step includes receiving data indicative of the current location of said user from an external position location system.

20. The method of claim 20, wherein said external position location system is one of a GPS system and a LORAN system.

21. The method of claim 17, wherein said receiving step includes receiving information indicative of the quality of wireless communications at a plurality of locations proximate the current location of said user.

Serial No.

22. The method of claim 21, wherein said user is in a vehicle and said information is derived from a plurality of vehicles proximate the current location of said user, each of said vehicles providing information indicative of the quality of wireless communications at a respective one of said locations.

AD 23. The method of claim 22, wherein each of said vehicles transmits said information to a site of a wireless communications provider, said wireless communications provider transmitting said information to a receiver in the vehicle of said user.

24. The method of claim 22, wherein each of said vehicles transmits said information directly to a receiver in the vehicle of said user.

25. The method of claim 17, wherein said providing step includes:
generating a digital map indicative of the quality of wireless communications at the current location of said user based on said information.

26. The method of claim 25, wherein said generating step includes superimposing said map over a digital representation of at least a portion of said coverage area.

27. The method of claim 17, wherein said user is located in a moving vehicle, and wherein said method includes updating information indicative of the quality of wireless communications at said user location as said user location moves within said vehicle.

Serial No.

28. A method for predicting quality of wireless communications within a coverage area, comprising:

generating a digital map which includes information indicative of a travel route between first and second locations within said coverage area;

determining a current location of a user along said travel route;

receiving information indicative of a quality of wireless communications at at least one point ahead of the current location of the user along said travel route; and

informing the user of the quality of wireless communications at said at least one point.

29. The method of claim 28, further comprising:

placing a call from said user along a system of a wireless service provider,

wherein said informing step includes warning the user of one of the following concerning said call: communications are about to be lost, communications have been lost, communications are about to be regained, and communications have been regained.

30. The method of claim 28, wherein said informing step includes notifying the user when a call should not be made along a system of a wireless service provider based on said information indicating a low quality of wireless communications at said point along said travel route.

Serial No.

31. The method of claim 28, wherein said informing step includes:
displaying said digital map including said information indicative of a quality of
wireless communications at said at least one point.

A2 32. The method of claim 31, further comprising:
updating said digital map to reflect changes in the quality of wireless
communications along said travel route as the user moves along said travel route, said updating
step being performed based on additional information received by the user which is indicative
of a quality of wireless communications at another point ahead of an advanced location of the
user along said travel route.

33. The method of claim 28, wherein the user is in a vehicle and said information
is derived from a plurality of vehicles proximate the current location of the user, each of said
vehicles providing information indicative of the quality of wireless communications at a
respective one of said locations.

34. The method of claim 33, wherein each of said vehicles transmits said information
to a site of a wireless communications provider, said wireless communications provider
transmitting said information to a receiver in the vehicle of the user.

35. The method of claim 33, wherein each of said vehicles transmits said information
directly to a receiver in the vehicle of the user.

Serial No.

36. A method for generating a map indicative of quality of wireless communications within a coverage area, comprising:

generating a digital map of said coverage area;

identifying a location of a user on said digital map; and

superimposing information indicative of a quality of communications at at least one of said location of a user or a future location of said user.

37. A system for determining quality of wireless communications within a coverage area, comprising:

a location finder which determines a current location of a user within said coverage area;

a receiver which receives information indicative of a quality of wireless communications at at least one location proximate the current location of said user; and

a processor which provides an indication of a quality of wireless communications at the current location of said user based on said information.

38. A method for wireless mobile communications, comprising:

determining a position of a user within a coverage area;

calculating a route;

predicting signal quality over the calculated route; and

notifying the user of the predicted signal quality.

Serial No.

39. The method of claim 38, wherein said notifying step includes notifying the user when coverage is about to be lost along said route.

40. The method of claim 38, wherein said predicting step is performed while said user is communicating over a wireless network.

41. The method of claim 40, wherein said notifying step further includes presenting the user with a choice of terminating communications over the wireless network.

42. A method for initiating wireless mobile communications, comprising:
detecting a user request to initiate wireless communications;
determining a position of said user;
calculating a route; and
predicting signal quality over the calculated route.

43. The method of claim 42, further comprising:
notifying said user of the predicted signal quality.

44. The method of claim 42, further comprising:
presenting said user with a choice of not initiating the wireless communications.

Serial No.

45. The method of claim 42, further comprising:
directing said user to travel to another location.

46. A method for finding a route of a user in a wireless communications system, said
method comprising:

receiving a request to calculate a route;

calculating a plurality of routes; and

obtaining a prediction of the signal quality over respective ones of said plurality

of routes.

47. The method of claim 46, further comprising:
selecting from said plurality of routes a route with a best signal quality.

48. The method of claim 46, further comprising:
notifying the user of the predicted signal quality over respective ones of said
plurality of routes.